CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
SAN FRANCISCO BAY REGION

ORDER NO. 79-35
NPDES NO. CA0038598
WASTE DISCHARGE REQUIREMENTS FOR:

SEWER AUTHORITY MID-COASTSIDE,
CITY OF HALF MOON BAY, MONTARA
SANITARY DISTRICT, GRANADA
SANITARY DISTRICT, SAN MATEO COUNTY

The California Regional Water Quality Control Board, San Francisco Bay Region, (hereinafter called the Board) finds that:

1. Sewer Authority Mid-Coastside (hereinafter referred to as SAM) was formed by City of Half Moon Bay, Granada Sanitary District, and Montara Sanitary District in a Joint Exercise of Powers Agreement dated February 3, 1976, to exercise jointly the common power to perform all functions for the collection, treatment and disposal of wastewater including the acquisition and construction of new facilities. These four entities are collectively referred hereinafter as dischargers.

2. The dischargers, by application dated April 20, 1977, have applied for waste discharge requirements and a permit to discharge wastes under the National Pollutant Discharge Elimination System.

3. The dischargers are presently discharging an average dry weather flow of 0.93 million gallons per day (mgd) of municipal wastewater containing pollutants into the Pacific Ocean, a water of the United States. The treatment levels and discharge locations are described as follows:

   a. The City of Half Moon Bay provides secondary treatment facilities with a design capacity of 1.0 mgd. The flow is presently restricted to 0.6 mgd by Regional Board Order No. 74-194. Average dry weather flow is 0.44 mgd. Normally, treated wastewater is discharged to the Pacific Ocean through a deep ocean outfall extending approximately 1000 feet offshore. Due to a break in the ocean outfall, the City is presently discharging at the surf zone in the Pacific Ocean via Pilarcitos Creek and Pilarcitos Lagoon. A portion of the discharge flow up to 0.3 mgd is discharged to land for the purpose of golf course irrigation. This discharge is governed by Waste Discharge Requirements, Order No. 72-96. The present ocean discharge is governed by Waste Discharge Requirement, Order No. 74-194.

b. Montara Sanitary District provides secondary treatment facilities with a design capacity of 0.5 mgd. The District is discharging an average dry weather flow of 0.18 mgd to the Pacific Ocean at a point in a rocky substrate approximately 900 feet south of the Point Montara Lighthouse and 200 feet west of the cliff. This location is within the boundary of the James V. Fitzgerald Marine Reserve and extension, an Area of Special Biological Significance. The present ocean discharge is governed by Waste Discharge Requirements, Order No. 74-187 which contains a discharge prohibition to this area.

c. Granada Sanitary District provides primary treatment facilities with a design capacity of 0.3 mgd. The District is discharging an average dry weather flow of 0.31 mgd to the Pacific Ocean at a point approximately 500 feet offshore from the southeastern end of Pillar Point and outside the harbor breakwater. This location is within the boundary of the James V. Fitzgerald Marine Research and extension, an Area of Special Biological Significance. The present ocean discharge is governed by Waste Discharge Requirements, Order No. 74-186 which contains a discharge prohibition to this area.

4. The dischargers propose to discharge wastes from the City of Half Moon Bay, Montara Sanitary District and Granada Sanitary District into the Pacific Ocean, a water of the United States, through a combined deep ocean outfall with a design capacity of 5.71 mgd (PWWF) extending approximately 2000 feet offshore and located adjacent to the existing outfall at Half Moon Bay.

5. On March 21, 1974, the State Water Resources Control Board adopted Resolution 74-28, which designated the James V. Fitzgerald Marine Reserve as an Area of Special Biological Significance, (ASBS) and required the Regional Water Quality Control Boards to prohibit waste discharges from all controlled sources into such designated areas. Both Montara and Granada Sanitary Districts are presently discharging into the ASBS and are violating the discharge prohibitions described in their waste discharge requirement.

6. On December 20, 1977, the Regional Board adopted Cease and Desist Order Nos. 77-155, 77-156, and 77-157 for the City of Half Moon Bay, Montara Sanitary District and Granada Sanitary District for violations of waste discharge requirements. These Cease and Desist Orders are still in effect.

7. On January 12, 1979, the Regional Board filed legal action against SAM, the City of Half Moon Bay, Montara Sanitary District and Granada Sanitary District which requests the court to order them to comply with all existing Regional Board Orders.

8. The City of Half Moon Bay, being the lead agency for SAM has prepared a final Environmental Impact Report dated March 1976 for the San Mateo County Mid-Coastside Waste Water Management Plan in accordance with the California Environmental Quality Act (Public Resources Code, Section 2100 et seq.).

9. The project will have the following adverse effect on the environment: Ocean disposal of treated wastewater may interfere with the long-term stability of the ocean ecosystem.

10. The Discharge Prohibition, Effluent and Receiving Water Limitations and Provisions of this Order mitigate or avoid the adverse environmental effects of this project.

11. The State Water Resources Control Board, in January 1978, adopted the revised "Water Quality Control Plan for the Ocean Waters of California" which contains water quality objectives for the Pacific Ocean.

12. The beneficial uses of the Pacific Ocean are:

    a. Recreation
    b. Preservation and enhancement of fish, wildlife and other marine resources or preserves
    c. Industrial water supply
    d. Esthetic enjoyment
    e. Navigation

13. The Board has notified the dischargers and interested agencies and persons of its intent to prescribe revised waste discharge requirements for the discharge and has provided them with an opportunity for a public hearing and an opportunity to submit their written views and recommendations.

14. The Board, in a public meeting, heard and considered all comments pertaining to the discharge.

IT IS HEREBY ORDERED, that the Sewer Authority Mid-Coastside, the City of Half Moon Bay, Granada Sanitary District and Montara Sanitary District, in order to meet the provisions contained in Division 7 of the California Water Code and regulations adopted thereunder, and the provisions of the Federal Water Pollution Control Act and regulations and guidelines adopted thereunder, shall comply with the following:

A. Discharge Prohibitions

1. Discharge within 1,000 feet offshore from the extreme low waterline and where the waste will not receive a minimum dilution ratio of 100:1 as it reaches the surface is prohibited.

2. There shall be no bypass or overflow of untreated wastewater to waters of the State either at the treatment plant or from the collection system.

3. The average dry weather flow shall not exceed those flow limitations contained in Order Nos. 74-186, 74-187, and 74-194.

4. The discharge of municipal and industrial waste sludge directly to the ocean, or into a waste stream that discharges to the ocean, shall be prohibited. The discharge of sludge digester supernatant directly to the ocean, or into a waste stream that discharges to the ocean without further treatment shall be prohibited.

5. Discharge of wastes that will adversely affect waters over rocky substrates is prohibited.

6. Waste shall be discharged a sufficient distance from areas designated as being of special biological significance to assure maintenance of natural water quality conditions in these areas.

B. Effluent Limitations

1. The discharge of an effluent containing constituents in excess of the following limits is prohibited:

Constituents	Units	30-Day Average	7-Day Average	Maximum Daily	Instantaneous Maximum
a. Chlorine Residual	mg/l	-	-	-	0.0
b. BOD	mg/l	30	45	60	-
	*lbs/day				-
	*kg/day				-
c. Suspended Solids	mg/l	30	45	60	-
	*lbs/day				-
	*kg/day				-
d. Settleable Solids	ml/l-hr	0.1	-	-	0.2
e. Oil and grease	mg/l	10	-	20	75
	*lbs/day				-
	*kg/day				-
f. Turbidity	JTU	75	100	-	225

*Limits will be provided after treatment levels and capacity are resolved.

2. Discharges into the combined regional outfall from the following dischargers shall meet the following limitations upon connection to and discharge into the regional outfall:

(a) City of Half Moon Bay:

Constituents	Units	30-Day Average	7-Day Average	Maximum Daily	Instantaneous Maximum
a. Chlorine Residual	mg/l	-	-	-	0.0
b. BOD	mg/l *lbs/day *kg/day	30	45	60	- - -
c. Suspended Solids	mg/l *lbs/day *kg/day	30	45	60	- - -
d. Settleable Solids	ml/l-hr	0.1	-	-	0.2
e. Oil and grease	mg/l *lbs/day *kg/day	10	-	20	75 - -
f. Turbidity	JTU	75	100	-	225

(b) Montara Sanitary District:

Constituents	Units	30-Day Average	7-Day Average	Maximum Daily	Instantaneous Maximum
a. Chlorine Residual	mg/l	-	-	-	0.0
b. BOD	mg/l *lbs/day *kg/day	30	45	60	- - -
c. Suspended Solids	mg/l *lbs/day *kg/day	30	45	60	- - -
d. Settleable Solids	ml/l-hr	0.1	-	-	0.2
e. Oil and grease	mg/l *lbs/day *kg/day	10	-	20	75 - -
f. Turbidity	JTU	75	100	-	225

*Limits will be provided after treatment level, and capacity are resolved.

(c) Granada Sanitary District:

Constituents	Units	30-Day Average	7-Day Average	Maximum Daily	Instantaneous Maximum
a. Chlorine Residual	mg/l	-	-	-	0.0
b. BOD	mg/l	30	45	60	-
	*lbs/day				-
	*kg/day				-
c. Suspended Solids	mg/l	30	45	60	-
	*lbs/day				-
	*kg/day				-
d. Settleable Solids	ml/l-hr	0.1	-	-	0.2
e. Oil and grease	mg/l	10	-	20	75
	*lbs/day				-
	*kg/day				-
f. Turbidity	JTU	75	100	-	225

*Limits will be provided after treatment levels and capacity are resolved.

3. In addition, the following limitations shall apply to all dischargers:

(a) The arithmetic mean of the biochemical oxygen demand (5-day, 20°C) and suspended solids values, by weight, for effluent samples collected in a period of 30 consecutive calendar days shall not exceed 15 percent of the arithmetic mean of the respective values, by weight, for influent samples collected at approximately the same times during the same period (85 percent removal).

(b) The discharge shall not have a pH of less than 6.0 nor greater than 9.0.

(c) Representative samples of the effluent shall not exceed the following limits more than the percentage indicated:3/

Constituent	Unit of Measurement	6-month Median	Daily Maximum	Instantaneous Maximum
Arsenic	mg/l	0.01	0.05	0.1
Cadmium	mg/l	0.02	0.10	0.2
Total Chromium	mg/l	0.005	0.025	0.05
Copper	mg/l	0.2	0.4	2.00
Lead	mg/l	0.1	0.5	1.00
Mercury	mg/l	0.001	0.005	0.01
Nickel	mg/l	0.1	0.4	1.00
Silver	mg/l	0.02	0.05	0.20
Zinc	mg/l	0.3	0.50	3.00
Cyanide	mg/l	0.1	0.8	1.00
Phenolic Compounds	mg/l	0.5	1.5	5.00
Ammonia (expressed as nitrogen)	mg/l	40	60	100

Constituent	Unit of Measurement	6-month Median	Daily Maximum	Instantaneous Maximum
Total Identifiable Chlorinated Hydrocarbons[1]	mg/l	0.002	0.004	0.006
Toxicity Concentration[2]	tu	1.5[4]	2.0	2.5
Radioactivity		Not to exceed limits specified in Section 30269 of the California Administrative Code.		

[1] Total Identifiable Chlorinated Hydrocarbons shall be measured by summing the individual concentrations of DDT, DDD, DDE, aldrin, BHC, chlordane, endrin, heptachlor, lindane, dieldrin, polychlorinated biphenyls, and other identifiable chlorinated hydrocarbons.

[2] Method of calculation is in the "Water Quality Control Plan for Ocean Waters of California" dated January 1978.

[3] If the discharger is unable to comply with these limitations and can show good cause for such failure, the Board will consider modification of these limits.

[4] This is a 30 day average limitation.

C. Receiving Water Limitations

1. Floating particulates and grease and oil shall not be visible.

2. The discharge of waste shall not cause esthetically undesirable discoloration of the ocean surface.

3. The transmittance of natural light shall not be significantly[1] reduced at any point outside the initial dilution zone.[1]

4. The rate of deposition of inert solids and the characteristics of inert solids in ocean sediments shall not be changed such that benthic communities are degraded.[1]

5. Within a zone bounded by the shoreline and a distance of 1,000 feet from the shoreline or the 30-foot depth contour, whichever is further from the shoreline, the following bacteriological requirements shall be maintained throughout the water column:

[1] As defined in the "Water Quality Control Plan for Ocean Waters of California" dated January 1978.

(a) Samples of water from each sampling station shall have a concentration of coliform organisms less than 1,000 per 100 ml (10 per ml); provided that not more than 20 percent of the samples at any sampling station, in any 30-day period, may exceed 1,000 per 100 ml (10 per ml), and provided further that no single sample when verified by a repeat sample taken within 48 hours shall exceed 10,000 per 100 ml (100 per ml).

(b) The fecal coliform concentration based on a minimum of not less than five samples for any 30-day period, shall not exceed a log mean of 200 per 100 ml nor shall more than 10 percent of the total samples during any 30-day exceed 400 per 100 ml.

6. The dissolved oxygen concentration shall not at any time be depressed more than 10 percent from that which occurs naturally, as the result of the discharge of oxygen demanding waste materials.

7. The pH shall not be changed at any time more than 0.2 units from that which occurs naturally.

8. The dissolved sulfide concentration of waters in and near sediments shall not be significantly[1/] increased above that present under natural conditions.

9. The concentration of organic materials in marine sediments shall not be increased above that which would degrade[1/] marine life.

10. Nutrient materials shall not cause objectionable aquatic growths or degrade[1/] indigenous biota.

11. Marine communities, including vertebrate, invertebrate, and plant species, shall not be degraded.[1/]

12. The natural taste, odor, and color of fish, shellfish, or other marine resources used for human consumption shall be altered.

13. The discharge shall not cause toxic or other deleterious substances to be present in waters of the State in concentrations or quantities which will cause deleterious effects on aquatic biota, wildlife or waterfowl, or which render any of these unfit for human consumption either at levels created in the receiving waters or as a result of biological concentration.

14. The discharge shall not cause a violation of any applicable water quality standard for receiving waters adopted by the Regional Board or the State Water Resources Control Board as required by the Federal Water Pollution Control Act and regulations adopted thereunder. If more stringent applicable water quality standards are promulgated or approved pursuant to Section 303 of the Federal Water Pollution Control Act, or amendments thereto, the Board will revise and modify this Order in accordance with such more stringent standards.

[1/] As defined in the "Water Quality Control Plan for Ocean Waters of California" dated January 1972.

D. Provisions

1. Regional Board Order Nos. 74-186, 74-194, 74-187, and amendments thereto and Regional Board Cease and Desist Order Nos. 77-155, 77-156 and 77-157 shall remain in full force and effect. The dischargers shall comply with all effluent and receiving water limitations, prohibitions and provisions of this order immediately upon commencement of discharge through the regional outfall at Half Moon Bay as described in Finding 4 above. Construction necessary for the commencement of discharge shall be accomplished in accordance with the following time schedule. This time schedule is not intended and shall not be construed to extend any compliance time schedule applicable to discharges from the City of Half Moon Bay, Montara Sanitary District and Granada Sanitary District.

CONSTRUCTION TIME SCHEDULE

Task	Completion Date
Advertise for bids on construction of outfall conveyance line and reclamation line	April 1, 1979
Open bids for outfall conveyance line and reclamation line	May 1, 1979
Award of contracts for outfall, conveyance line and reclamation line	May 15, 1979
Start construction	June 1, 1979
Complete construction for outfall	December 1, 1979
Complete construction for conveyance and reclamation lines	May 31, 1980

2. The dischargers shall comply with the attached Self-Monitoring Program as ordered by the Executive Officer.

3. The dischargers shall comply with all items of the "Standard Provisions, Reporting Requirements and Definitions" dated April 1977.

4. This permit shall be modified, or alternatively revoked and reissued as soon as practicable to incorporate an approved publicly owned treatment work (POTW) pretreatment program or a compliance schedule for the development of a POTW pretreatment program as required under Section 402(b)(8) of the Clean Water Act and implementating regulations or by the requirements of the approved state pretreatment program as appropriate.

5. If the dischargers elect to document compliance with the coliform receiving water limitation exclusively in the effluent and so notifies the Board, in writing, the frequency of receiving water coliform monitoring will be reduced accordingly; PROVIDED, HOWEVER, that if such election is made, a violation of the coliform requirement in the effluent shall constitute a violation of the coliform receiving water limitation.

6. This Order expires on March 20, 1984, and the dischargers must file a Report of Waste Discharge in accordance with Title 23, Chapter 3, Subchapter 9 of the California Administrative Code, not later than 180 days in advance of such date as application for issuance of new waste discharge requirements.

7. This Order shall serve as a National Pollutant Discharge Elimination System permit pursuant to Section 402 of the Federal Water Pollution Control Act or amendments thereto, and shall become effective ten (10) days after date of its adoption provided the Regional Administrator, Environmental Protection Agency has no objection. If the Regional Administrator objects to its issuance, the permit shall not become effective until such objection is withdrawn.

8. It is the intent of the Regional Board that in the event of a violation of this Order by less than all of the constituent entities of SAM, enforcement action be directed solely to the entity or entities responsible for the violation.

I, Fred H. Dierker, Executive Officer, do hereby certify the foregoing is a full, true, and correct copy of an Order adopted by the California Regional Water Quality Control Board, San Francisco Bay Region, on March 20, 1979.

FRED H. DIERKER

Standard Provisions, Reporting Requirements & Definitions, dated April 1977

STATE OF CALIFORNIA GEORGE DEUKMEJIAN, Governor

CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
SAN FRANCISCO BAY REGION
1111 JACKSON STREET, ROOM 6040
OAKLAND 94607

Phone: Area Code 415
464-1255

Date August 29, 1983

File No. 2179.7068 (TWH)ej

Mr. William Heaslet
General Manager
Sewer Authority Mid-Coastside
P.O. Box 862
Half Moon Bay, CA 94019

Gentlemen:

Subject: Transmittal of Revised Tentative Monitoring Program

Please find enclosed two copies of a revised tentative Monitoring Program for your discharge. This revised Monitoring Program has incorporated modifications to the initial tentative Monitoring Program pursuant to the agreement reached between you and the staff of this Regional Board.

You are requested to submit to this office, within five (5) days from the above date, your agreement to do the work specified, commencing on the date shown on the last page of the Monitoring Program. Two certified copies of the detailed specifications for your Monitoring Program signed by the Executive Officer will be mailed to you upon the receipt of your letter of acceptance of the Monitoring Program by the Executive Officer of this office.

If you have any questions regarding this, please contact Mr. Thomas Hall at (415) 464-0554.

Sincerely,

Teng-chung Wu

Teng chung Wu
South Bay Division Chief

Enclosures:
(1) Tentative Self-Monitoring Program
(2) Industrial Waste Survey - Example Forms
(3) Example Non-Industrial Source Control (NSMCSD)
cc: EPA - Region IX (M-5) w/encl (1)
Dept. of Fish and Game, w/encl (1)

S-7

CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
SAN FRANCISCO BAY REGION

SELF-MONITORING PROGRAM
FOR

SEWER AUTHORITY MID-COASTSIDE

SAN MATEO COUNTY

NPDES NO. CA 0038598

ORDER NO. 79-35

CONSISTS OF

PART A dated January 1978

AND

PART B

PART B

DESCRIPTION OF SAMPLING STATIONS

A. INFLUENT AND INTAKE

Station	Description
A-1	At any point in the treatment facilities headworks at which all waste tributary to the system is present and preceding any phase of treatment.

B. EFFLUENT

Station	Description
E-001	At any point in the outfall from the treatment facilities between the point of discharge and the point at which all waste tributary to that outfall is present following sulfonation.
E-001-D	At any point in the treatment facilities after disinfection is complete and prior to sulfonation.

C. RECEIVING WATER

Station	Description
C-1,2,3 and C-R	Identical to locations used in pre-discharge Monitoring Program (Report dated Nov. 1981).

D. OVERFLOWS AND BYPASSES

Station	Description
OV-1 thru OV-'n'	Bypass or overflows from manholes, pump stations, or collection systems of all SAM member agencies.

Note: Initial SMP report to include map and description of each known bypass or overflow location and documentation of each know bypass or overflow location and documentation of alarms, pumping capacity storage capacity, and bypass lcoation of all member agency pump stations.

Reporting - Shall be submitted monthly and include date, time, period of each overflow or bypass, and corrective action taken. Significant events shall be reported by phone as soon as they are detected (See Part A. Section F.2.).

E. LAND OBSERVATIONS

Station	Description
P-1 thru P-'n'	Located at the corners and midpoints of the perimeter fenceline surrounding the treatment facilities (A sketch showing the location of these stations will accompany each report.)
S-1 thru S-'n'	All of the shorelines from 1,000 feet north of the outfall line to 1,000 feet south of the outfall line.

II. SCHEDULE OF SAMPLING AND ANALYSIS

A. The schedule of sampling and analysis shall be that given as Table I.

III. MODIFICATION OF PART "A" DATED 1/78

A. Exclusions: Paragraphs C.3. and C.4

I, Fred H. Dierker, Executive Officer, do hereby certify that the foregoing Self-Monitoring Program:

1. Has been developed in accordance with the procedure set forth in this Regional Board's Resolution No. 73-16 in order to obtain data and document compliance with waste discharge requirements established in Regional Board Order No. 79-35

2. Is effective on the date shown below.

3. May be reviewed at any time subsequent to the effective date upon written notice from the Executive Officer or request from the discharger and revisions will be ordered by the Executive Officer.

FRED H. DIERKER
Executive Officer

Effective Date 9/26/83

Attachments:
Table I and Legend For Table

SEWER AUTHORITY
MID - COASTSIDE

TABLE I

SCHEDULE FOR SAMPLING, MEASUREMENTS, AND ANALYSIS

Effective Date

Sampling Station	A	E-001			E-001D			All Pss Sta.	All OV Sta.			All C Sta.	
TYPE OF SAMPLE	C-24	G	C-24	Cont.	G	C-24		0	0			(5) S	
Flow Rate (mgd)				D									
BOD, 5-day, 20° C, or COD (mg/l & kg/day)	2/W		3/W										
Chlorine Residual & Dosage (mg/l & kg/day)		2H	or	(4) Cont.	2H	or (4) Cont							
Settleable Matter (ml/1-hr. & cu. ft./day)		D											
Total Suspended Matter (mg/l & kg/day)	2/W		5/W										
Oil & Grease (mg/l & kg/day)	(2) 2 W		(2) 2W										
Coliform (Total or Fecal) (MPN/100 ml) per req't					5/W								
Fish Toxicity, 96-hr. TL_{50} % Survival in undiluted waste			(3) 2/M										
Ammonia Nitrogen (mg/l & kg/day)			2/M										
Nitrate Nitrogen (mg/l & kg/day)													
Nitrite Nitrogen (mg/l & kg/day)													
Total Organic Nitrogen (mg/l & kg/day)													
Total Phosphate (mg/l & kg/day)													
Turbidity (Jackson Turbidity Units)			M										
pH (units)		D											
Dissolved Oxygen (mg/l and % Saturation)		D											
Temperature (°C)		D											
Apparent Color (color units)			M										
Secchi Disc (inches)													
Sulfides (if DO ≤ 5.0 mg/l) Total & Dissolved (mg/l)		W											
Arsenic (mg/l & kg/day)			2M									2M	
Cadmium (mg/l & kg/day)			2M									2M	
Chromium, Total (mg/l & kg/day)			2M									2M	
Copper (mg/l & kg/day)			2M									2M	
Cyanide (mg/l & kg/day)			2M									2M	
Silver (mg/l & kg/day			2M									2M	
Lead (mg/l & kg/day)			2M									2M	

SEWER AUTHORITY
MID-COASTSIDE

TABLE I (continued)

SCHEDULE FOR SAMPLING, MEASUREMENTS, AND ANALYSIS

Effective Date _____

Sampling Station	A	E-001			E-001-D			All P&S Sta.	All OV Sta.			All C Sta.	
TYPE OF SAMPLE	C-24	G	C-24	Cont.	G	C-24		O	O			S(5)	
Mercury (mg/l & kg/day)			2M									2M	
Nickel (mg/l & kg/day)			2M									2M	
Zinc (mg/l & kg/day)			2M									2M	
PHENOLIC COMPOUNDS (mg/l & kg/day)			2M									2M	
All Applicable Standard Observations		D						W	E			2M	
Chlorinated Biphenyls												2M	
Total Identifiable Chlorinated Hydrocarbons (mg/l & kg/day)			2M										
Polychlorinated Biphenyls												2M	
Physical Analyses												2M	

LEGEND FOR TABLE

TYPES OF SAMPLES

G = grab sample
C-24 = composite sample - 24-hour
Cont = continuous sampling
O = observation
S = Subsample of 10 mussels

TYPES OF STATIONS

A = treatment facility influent stations
E = waste effluent stations
C = receiving water mussel stations
P = treatment facilities perimeter stations
S = shoreline
OV = overflows and bypasses

FREQUENCY OF SAMPLING

E = each occurence
D = once each day
W = once each week
M = once each month

2/W = 2 days per week
3/W = 3 days per week
5/W = 5 days per week
2/M = 2 days per month

2H = every 2 hours
2D = every 2 days
2W = every 2 weeks
3M = every 3 months
Cont = continuous
2M = every 2 months

1/ Following any day of noncompliance with effluent limits, the discharger shall promptly accelerate his monitoring program to analyze the discharge at least once each day for those consitituents that have been violated, until compliance has been attained. During any day when bypassing occurs from any treatment unit(s) in the plant, the monitoring program for the effluent shall include the following in addition to the above schedule for sampling, measurement and analyses:

a. Composite sample for BOD and Total Suspended Solids

b. Grab sample for Coliform, Settleable Matter, and Chlorine Residual (continuous or every two hours)

c. Continuous monitoring of flow

2/ Oil and Grease sampling shall consist of 3 grab samples taken at 8 hour intervals during the sampling day with each grab being collected in a glass container and analyzed separately. Results for stations A-001 and E-001 shall be expressed as a weighted average of the 3 values, based upon the instantaneous flow rates occurring at the time of each grab sample. If the plant is not staffed 24 hours per day or if the discharge does not occur continuously, then the three grab samples may be taken at approximately equal intervals during the period that the plant is staffed or during the period that discharge is made. The 3 grab samples may be combined and analyzed as a composite sample after submittal of data acceptable to the Executive Officer that the two techniques are equivalent.

In the event that sampling for oil and grease once every two weeks or less frequently shows an apparent violation of the waste discharge permit, 30-day average limitation (considering the results of one or two day's sampling as a 30-day average), then the sampling frequency shall be increased to weekly so that a true 30-day average can be computed and compliance can be determined.

3/ Sample date for bioassays and for one of all other specified parameters at E-001 shall coincide with date and times of E-001 composite sample.

4/ Data shall be reported using Form A (attached) or equivalent. Chlorine residual analyzers shall be calibrated against grab samples as frequently as necessary to maintain accurate control and reliable operation. If an effluent violation is detected, samples shall be taken every 30 minutes until compliance is achieved.

5/ Chemicial analyses to be reported as ug/g-dry weight and conducted using procedures of Baseline Study for 12 months.*

Physical analyses to include all Baseline study parameters; percent mortality shell length, animal weight, tissue volume, tissue weight, gonad weight, and gonad index. A final report comparing pre and past discharge monitoring is to be submitted to the Regional Board within 60 days of completion of this study.

*Mussel study to be delayed until Fiscal year 1984-85 or indefinately pending completion of an Industrial Waste Survey and Non-Industrial Source Control Program acceptable to the Executive Officer and evaluation of 1983-84 effluent toxicant data.